

Appl. No. 10/027,638  
Amdt. dated 1/13/06  
Reply to Office Action of 10/13/05

PATENT  
Docket: 010286

### REMARKS

Reconsideration and allowance of the above-referenced application are respectfully requested.

Upon entry of this amendment, claims 1-32, as amended, will remain in the application, with claims 6-17 and 23-27 having been withdrawn from consideration.

#### Claim Rejections – 35 USC 102

Claims 1-5, 8-22, and 28-32 were rejected under 35 U.S.C. 102(b) as being allegedly anticipated by Haugli et al. (U.S. Patent No. 5,914,944, hereinafter "Haugli").

In the telephone interview of January 12, 2006, Applicant's attorney, Kenyon Jenckes, and Examiner Nguyen discussed Figures 4 and 8 and the inputs to and functions of the local oscillators (LOs). Also clarified was that the I and Q component signals, while 90 degrees out of phase, have the same frequency.

Applicant has amended independent claims 1, 18, and 28 to clarify that the frequencies of the first and second signals are different from each other as well as that of the RF input. This is also shown in dependent claims 2, 19, and 29, which recite that the frequency of the local oscillator signal is either the sum or difference of the first and second signals

Haugli does not describe generating a local oscillator signal having a frequency that is a function of two signals having frequencies different from each other and from an incoming RF signal. Accordingly, Applicant submits that independent claims 1, 18, and 28, and their dependencies are allowable.

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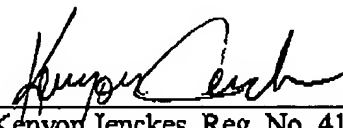
### CONCLUSION

In light of the amendments contained herein, Applicants submit that the application is in condition for allowance, for which early action is requested.

Please charge any fees or overpayments that may be due with this response to Deposit Account No. 17-0026.

Respectfully submitted,

Dated: 1/13/06

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